

Title (en)

ETHYLENE COPOLYMERS PRODUCED WITH SINGLE SITE CATALYST

Title (de)

MIT SINGLE-SITE-KATALYSATOR HERGESTELLTE ETHYLENPOLYMERE

Title (fr)

COPOLYMÈRES D'ÉTHYLÈNE PRODUITS À L'AIDE DE CATALYSEUR À SITE UNIQUE

Publication

EP 3183276 A1 20170628 (EN)

Application

EP 15750820 A 20150806

Priority

- US 201462038971 P 20140819
- IB 2015055989 W 20150806

Abstract (en)

[origin: WO2016027193A1] Embodiments of the invention described herein relate to a polyethylene polymer composition suitable for use in the manufacture of packaging articles, flexible films and/or sheets. In one embodiment, the copolymer comprises a polyethylene resin with density 0.918 g/cm³ to about 0.935 g/cm³, G' at G''(500 Pa) value, as determined from Dynamic Mechanical Analysis at 190 °C, of less than 40 Pa, Mz/Mw of greater than 2, CDBI50 of greater than 60. Other embodiments relate to polymer compositions with defined molecular characteristics and formulations suitable for use in the manufacture of articles including films, sheets, bags and pouches with improved creep resistance and high toughness and a good balance of film stiffness and processability in monolayer and/or multi-layer film structures.

IPC 8 full level

C08F 210/00 (2006.01); **C08F 2/00** (2006.01); **C08F 2/04** (2006.01); **C08F 4/6592** (2006.01); **C08F 210/16** (2006.01)

CPC (source: CN EP KR US)

B32B 27/06 (2013.01 - US); **B32B 27/08** (2013.01 - EP); **B32B 27/32** (2013.01 - KR); **B32B 27/327** (2013.01 - EP); **C08F 2/001** (2013.01 - KR); **C08F 2/38** (2013.01 - KR); **C08F 4/6592** (2013.01 - KR); **C08F 210/00** (2013.01 - CN EP US); **C08F 210/02** (2013.01 - KR); **C08F 210/16** (2013.01 - CN EP KR US); **C08J 5/18** (2013.01 - EP US); **C08L 23/06** (2013.01 - US); **C08L 23/08** (2013.01 - KR); **C08L 23/0815** (2013.01 - EP US); **B32B 2250/242** (2013.01 - EP); **B32B 2307/51** (2013.01 - EP); **B32B 2307/548** (2013.01 - EP); **B32B 2307/558** (2013.01 - EP); **B32B 2307/5825** (2013.01 - EP); **B32B 2307/72** (2013.01 - US); **B32B 2307/732** (2013.01 - EP); **B32B 2439/46** (2013.01 - EP); **B32B 2439/62** (2013.01 - EP); **B32B 2439/70** (2013.01 - EP); **C08F 4/65908** (2013.01 - EP US); **C08F 4/65912** (2013.01 - EP US); **C08F 2410/01** (2013.01 - EP); **C08F 2420/04** (2013.01 - CN EP US); **C08F 2500/12** (2013.01 - KR); **C08F 2500/18** (2013.01 - KR); **C08F 2500/26** (2013.01 - KR US); **C08J 2323/08** (2013.01 - EP US); **C08L 2203/16** (2013.01 - EP US); **C08L 2205/025** (2013.01 - EP US)

C-Set (source: CN EP US)

CN

1. **C08F 210/00** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26**
2. **C08F 210/16** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26**
3. **C08F 210/00** + **C08F 4/6592**
4. **C08F 210/00** + **C08F 4/65908**
5. **C08F 210/00** + **C08F 4/65912**
6. **C08F 210/00** + **C08F 2/001**
7. **C08F 210/00** + **C08F 2/04**

EP

1. **C08F 210/16** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26**
2. **C08F 210/00** + **C08F 4/6592**
3. **C08F 210/00** + **C08F 2/001**
4. **C08F 210/00** + **C08F 2/04**
5. **C08L 23/0815** + **C08L 23/0815**
6. **C08F 210/16** + **C08F 2/001**
7. **C08F 210/16** + **C08F 4/6592**
8. **C08F 210/16** + **C08F 210/14** + **C08F 2500/03** + **C08F 2500/06** + **C08F 2500/12** + **C08F 2500/26** + **C08F 2500/28** + **C08F 2500/29**
9. **C08F 210/00** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26** + **C08F 2500/27** + **C08F 2500/28** + **C08F 2500/29** + **C08F 2500/39**

US

1. **C08F 210/00** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26**
2. **C08F 210/16** + **C08F 2500/12** + **C08F 2500/06** + **C08F 2500/26**
3. **C08F 210/00** + **C08F 4/6592**
4. **C08F 210/00** + **C08F 2/001**
5. **C08F 210/00** + **C08F 2/04**
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DOCDB simple family (application)

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MX 2017001925 A 20150806; TW 104124430 A 20150728; US 201515504341 A 20150806; US 201916264967 A 20190201